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This dissertation focuses on two interrelated concepts: (1) the role of statistical learning in visual selection (**Chapters 2-9**), and (2) the role of attention in visual working memory (**Chapters 10-14**). Visual working memory, visual attention, and statistical learning are closely related topics in cognitive science. Below, I briefly introduce the underlying theoretical concepts related to 1) The role of statistical learning in visual selection; 2) visual working memory and its flexible representation.